

# Converting Colors

CIELCh(89, 37.388, 133.990)

Have a look what the booklet for  
CIELCh(89, 37.388, 133.990)  
contains.

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**Color**

**CIELCh(89, 37.348, 133.709)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C0ECAB
RGB	192, 236, 171
RGB Percent	75%, 93%, 67%
CMY	0.2469, 0.0743, 0.3293
CMYK	0.19, 0.00, 0.28, 0.07
HSL	101°, 63%, 80%
HSV	101°, 28%, 93%
XYZ	59.1068, 74.1641, 49.7447
YIQ	215.4340, -5.3590, -29.5430

# Conversions

## Conversions Part 2

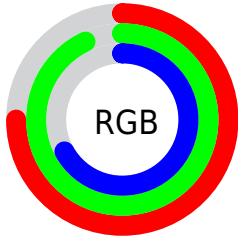
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 236, 215
Decimal	12643499
CIELab	89.00, -25.81, 27.00
CIELCh	89, 37.348, 133.709
Yxy	74.1641, 0.3230, 0.4052
Android (android.graphics.Color)	4290833579 (0xFFC0ECAB)
YUV	215.4340, -21.9060, -20.5516
Hunter-Lab	86.1186, -28.1956, 26.0353

# Details

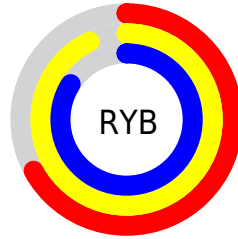
The CIELCh color **89, 37.348, 133.709** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **76, 38.207, 316.184**, and the grayscale version is **86, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 14.361, 117.813**, and **69, 37.417, 133.386** is the 20% darker color. If you saturate the color by 10%, you get **88, 50.729, 133.170**, and if you desaturate by 10%, it is **90, 23.781, 134.223**.

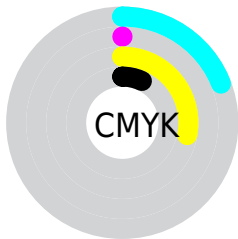
# Distribution



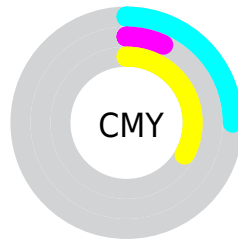
- Red (75%)
- Green (93%)
- Blue (67%)



- Red (67%)
- Yellow (93%)
- Blue (84%)



- Cyan (19%)
- Magenta (0%)
- Yellow (28%)
- Black (7%)




- Cyan (25%)
- Magenta (7%)
- Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 89, 37.348, 133.709 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 89, 37.348, 133.709 by changing the saturation by 10% instead.





 89, 37.348,  
133.709


 89, 37.348,  
133.709


 100, 37.348,  
133.709

 79, 37.348,  
133.709

 69, 37.348,  
133.709

 59, 37.348,  
133.709

 49, 37.348,  
133.709

 39, 37.348,  
133.709


 29, 37.348,  
133.709


 19, 37.348,


133.709


 9, 37.348, 133.709


 0, 37.348, 133.709


 89, 37.348,  
133.709


 89, 37.348,  
133.709

 88, 50.729,  
133.170


 90, 23.781,  
134.223


 86, 63.691,  
132.630

 92, 10.186,  
134.700

 85, 75.915,  
132.143

 94, 3.320, 315.039

 85, 86.961,  
131.792

 95, 11.829,  
324.827

 84, 96.273,

131.696

■ 83, 103.271,  
131.988

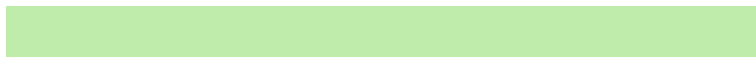
■ 83, 107.670,  
132.724

■ 83, 108.519,  
132.916

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



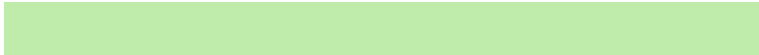
89, 37.348, 133.709



76, 38.207, 316.184

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



89, 37.348, 133.709



89, 37.348, 183.709



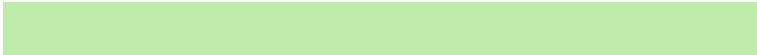
89, 37.348, 313.709



89, 37.348, 3.709

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



89, 37.350, 133.710



99, 11.509, 134.677



87, 24.178, 87.569



52, 8.186, 134.606



0, 0.000, 0.000



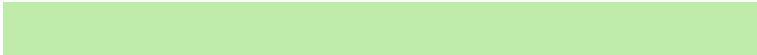
53, 0.007, 296.813



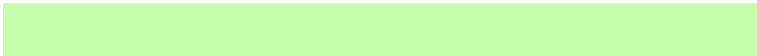


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



89, 37.350, 133.710



95, 47.578, 133.410



88, 36.789, 147.363



48, 7.644, 134.610



65, 88.724, 132.691



19, 35.507, 132.443



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



76, 38.207, 316.184



78, 48.896, 316.430



78, 36.901, 331.101



46, 7.711, 315.380



33, 92.992, 316.660



6, 38.430, 317.581



# Previews

## White Background



This preview shows how the CIELCh color 89, 37.348, 133.709 looks on a white background.

## Color Contrast Check

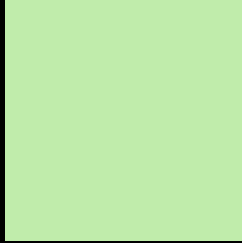
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 89, 37.348, 133.709 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

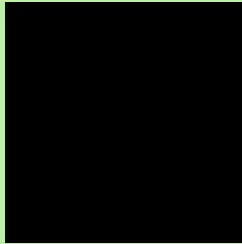
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

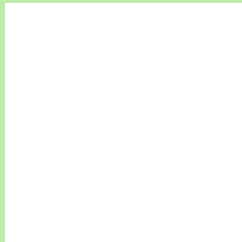
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 89, 37.348, 133.709**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 89, 37.348, 133.709.

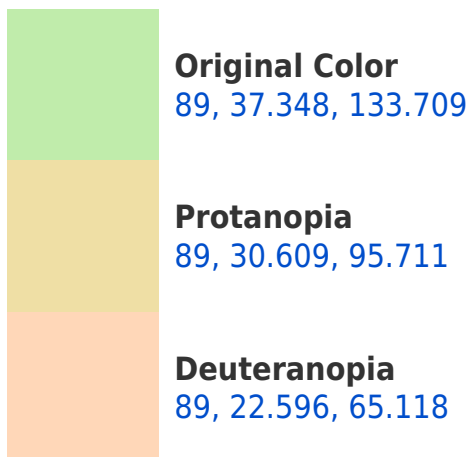


This preview shows how white text looks on a background with the CIELCh color 89, 37.348, 133.709.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy







**Tritanopia**  
89, 12.193, 253.652

# Trichromacy



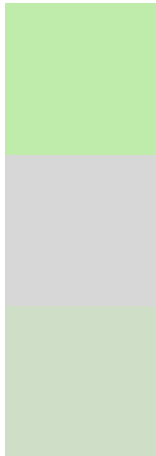
**Original Color**  
89, 37.348, 133.709

**Protanomaly**  
89, 31.435, 111.845

**Deuteranomaly**  
89, 23.031, 99.568

**Tritanomaly**  
89, 12.380, 168.265

# Monochromacy



**Original Color**  
89, 37.348, 133.709

**Achromatopsia**  
86, 0.010, 296.813

**Achromatomaly**  
87, 13.866, 134.222

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 89, 37.348, 133.709 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(192, 236, 171)` looks like.

```
.text, #text, p{  
    color:rgb(192, 236, 171)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(192, 236, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(192, 236, 171) }
```

## Border

The CSS property to change the border of an element to CIELCh 89, 37.348, 133.709 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(192, 236, 171) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(192, 236, 171) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(192, 236, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(192, 236, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(192, 236, 171);  
box-shadow:4px 4px 4px 4px rgb(192, 236,  
171) }
```

# Background

The CSS property to change the background color of an element to CIELCh 89, 37.348, 133.709 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(192, 236, 171) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(192,  
236, 171) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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